



**Date:** March 22, 2016

**To:** Thomas J. Bonfield, City Manager  
**Through:** W. Bowman Ferguson, Deputy City Manager  
**From:** Donald F. Greeley, Director, Water Management  
**Subject:** Contract for Professional Engineering and Groundwater Monitoring Services for Closed Sanitary Landfill

### **Executive Summary**

The Department of Water Management issued a Request for Proposals (RFP) in July of 2015 for professional consulting services for continued monitoring and compliance for the City's closed sanitary landfill on Club Boulevard. The geology and engineering firm of Smith Gardner, Inc. was selected and a contract negotiated for a four year term of service totaling \$144,425. This contract provides all required groundwater testing, compliance monitoring and supporting consulting services for the closed sanitary landfill.

### **Recommendation**

The Department of Water Management recommends that the City Council:

1. Authorize the City Manager to execute a contract with Smith Gardner, Inc. for professional services for the closed sanitary landfill in the total amount not to exceed \$144,425.00; and
2. Establish a contingency amount of \$14,575.00; and
3. Authorize the City Manager or his designee to negotiate change orders for the contract provided that the cost of all change orders does not exceed \$14,575.00 and the total project cost does not exceed \$159,000.00.

### **Background**

Groundwater monitoring on a semi-annual basis at the closed City of Durham Sanitary Landfill is required by the North Carolina Department of Environmental Quality (NCDEQ) for at least thirty years after the landfill is closed. NCDEQ also requires quarterly landfill gas (LFG) monitoring. The landfill, located at 2115 East Club Boulevard, was closed in 1998. The present contract for these services has expired and a new RFP was issued in order to select a firm to perform these services.

The contractor is responsible for measuring groundwater levels and obtaining groundwater, surface water, and LFG samples from NCDENR-approved monitoring wells and locations. The sampling data is analyzed to evaluate the groundwater flows and groundwater and LFG quality. A semi-annual report will be provided for approval by the City and subsequent submittal to the NCDEQ. The contractor will also perform inspection services of the landfill cap and stormwater conveyance systems review the LFG extraction system results and provide general consulting services for miscellaneous landfill issues. The contractor will also

perform a comprehensive inspection of the landfill at the start of the contract to identify and prioritize necessary maintenance.

### **Issues/Analysis**

In order to select a contractor to perform these services, an RFP was prepared and advertised. Responses were received from the following firms:

Bureau Veritas North America, Inc.  
Golder Associates NC, Inc.  
SCS Engineers, PC  
Smith Gardner, Inc.  
Withers and Ravenel, Inc.

A selection committee made up of staff from Water Management, Solid Waste and Equal Opportunity/ Equity Assurance selected Smith Gardner, Inc.. This firm has performed these services for many North Carolina landfills, is familiar with State regulations and has impressive references for similar work done for others.

### **Alternatives**

This service is required by State and Federal solid waste regulations. The only alternatives would be to select another less qualified firm or for the City to hire additional staff capable of performing the work and do this monitoring internally.

### **Financial Impacts**

The cost of this service varies depending on the level of laboratory testing required. The contract amount of \$159,000.00 covers four (4) years of semi-annual groundwater sampling, quarterly LFG sampling, semi-annual LFG extraction system review, biennial inspections, general consulting and contingency. This money is included in the regular operations budget for the closed landfill in the Solid Waste Fund, 5400P710-728800.

FY 2016	\$ 16,625.00
FY 2017	\$ 75,900.00
FY 2018	\$ 51,900.00
FY 2019	<u>\$ 51,900.00</u>
Total Contract Amt:	\$ 144,425.00
Contingency:	<u>\$ 14,575.00</u>
Grand Total:	\$ 159,000.00

### **SDBE Summary**

The Equal Opportunity/Equity Assurance Department reviewed the proposal submitted by Smith Gardner, Inc. of Raleigh, North Carolina and have determined that they are in compliance with the Ordinance to Promote Equal Business Opportunities in City Contracting.

### **SDBE REQUIREMENTS**

No MSDBE or WSDBE goals were set.

Smith Gardner, Inc. will subcontract to the following certified firms:

*Great Things Are Happening In Durham*

Firm	ID	City/State	Amount	% of Contract
Prism Laboratories, Inc.	W/SDBE	Charlotte, NC	\$ 3,600.00 per/yr.	5.6%

### **WORKFORCE STATISTICS**

Workforce statistics for Smith Gardner, Inc. are as follows:

Total Workforce	23	
Total Females	6	(26%)
Total Males	17	(74%)
Black Males	0	(0%)
White Males	17	(74%)
Other Males	0	(%)
Black Females	0	(0%)
White Females	6	(17%)
Other Females	0	(0%)